

FIG. 1A

# D1/D2 26S RIBOSOMAL DNA SEQUENCE IDENTIFYING SSSJ-0 AS AN ISOLATE OF KLUYVEROMYCES MARXIANUS

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SSSJ-0          ---CCAACCGGGATNGCCTTNGTAACGGCGAGTGAAGCGGCAAAAGCTCA 47
Kluyveromyces marxianus AAACCAACCGGGATTGCCTTAGTAACGGCGAGTGAAGCGGCAAAAGCTCA 50
Kluyveromyces lactis    AAACCAACCGGGATTGCCTTAGTAACGGCGAGTGAAGCGGCAAAAGCTCA 50
Kluyveromyces wickerhamii AAACCAACCGGGATTGCCTTAGTAACGGCGAGTGAAGCGGCAAAAGCTCA 50
Kluyveromyces dobzhanskii AAACCAACCGGGATTGCCTTAGTAACGGCGAGTGAAGCGGCAAAAGCTCA 50
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SSSJ-0          AATTTGAAATCTGGCGTCTTCGACGTCCGAGTTGTAATTTGAAGAAGGCG 97
Kluyveromyces marxianus AATTTGAAATCTGGCGTCTTCGACGTCCGAGTTGTAATTTGAAGAAGGCG 100
Kluyveromyces lactis    AATTTGAAATCTGGCGTCTTCGACGTCCGAGTTGTAATTTGAAGAAGGCA 100
Kluyveromyces wickerhamii AATTTGAAATCTGGCGTCTTCGACGTCCGAGTTGTAATTTGAAGAAGGTA 100
Kluyveromyces dobzhanskii AATTTGAAATCTGGCGTCTTCGACGTCCGAGTTGTAATTTGAAGAAGGTT 100
*****

SSSJ-0          ACTTTGTAGCTGGTCCTTGTCTATGTTCTTGGAACAGGACGTCATAGAG 147
Kluyveromyces marxianus ACTTTGTAGCTGGTCCTTGTCTATGTTCTTGGAACAGGACGTCATAGAG 150
Kluyveromyces lactis    ACTTTGTAGCTGGTCCTTGTCTATGTTCTTGGAACAGGACGTCATAGAG 150
Kluyveromyces wickerhamii ACTTTGTAGCTGGTCCTTGTCTATGTTCTTGGAACAGGACGTCATAGAG 150
Kluyveromyces dobzhanskii ACTTTGTAGCTGGTCCTTGTCTATGTTCTTGGAACAGGACGTCATAGAG 150
*****

SSSJ-0          GGTGAGAATCCCGTGTGGCGAGGATCCAGTTATTTGTAAAGTGCTTTTCG 197
Kluyveromyces marxianus GGTGAGAATCCCGTGTGGCGAGGATCCAGTTATTTGTAAAGTGCTTTTCG 200
Kluyveromyces lactis    GGTGAGAATCCCGTGTGGCGAGGATCCAGTTATTTGTAAAGTGCTTTTCG 200
Kluyveromyces wickerhamii GGTGAGAATCCCGTGTGGCGAGGATCCAGTTATTTGTAAAGTGCTTTTCG 200
Kluyveromyces dobzhanskii GGTGAGAATCCCGTGTGGCGAGGATCCAGTTATTTGTAAAGTGCTTTTCG 200
*****

SSSJ-0          ACGAGTCGAGTTGTTTGGGAATGCAGCTCTAAGTGGGTGGTAAATTCAT 247
Kluyveromyces marxianus ACGAGTCGAGTTGTTTGGGAATGCAGCTCTAAGTGGGTGGTAAATTCAT 250
Kluyveromyces lactis    ACGAGTCGAGTTGTTTGGGAATGCAGCTCTAAGTGGGTGGTAAATTCAT 250
Kluyveromyces wickerhamii ACGAGTCGAGTTGTTTGGGAATGCAGCTCTAAGTGGGTGGTAAATTCAT 250
Kluyveromyces dobzhanskii ACGAGTCGAGTTGTTTGGGAATGCAGCTCTAAGTGGGTGGTAAATTCAT 250
*****

SSSJ-0          CTAAAGCTAAATATTGGCGAGAGACCGATAGCGAACAAGTACAGTGATGG 297
Kluyveromyces marxianus CTAAAGCTAAATATTGGCGAGAGACCGATAGCGAACAAGTACAGTGATGG 300
Kluyveromyces lactis    CTAAAGCTAAATATTGGCGAGAGACCGATAGCGAACAAGTACAGTGATGG 300
Kluyveromyces wickerhamii CTAAAGCTAAATATTGGCGAGAGACCGATAGCGAACAAGTACAGTGATGG 300
Kluyveromyces dobzhanskii CTAAAGCTAAATATTGGCGAGAGACCGATAGCGAACAAGTACAGTGATGG 300
*****

SSSJ-0          AAAGATGAAAAGAACTTTGAAAAGAGAGTGAAAAGTACGTGAAATTGTT 347
Kluyveromyces marxianus AAAGATGAAAAGAACTTTGAAAAGAGAGTGAAAAGTACGTGAAATTGTT 350
Kluyveromyces lactis    AAAGATGAAAAGAACTTTGAAAAGAGAGTGAAAAGTACGTGAAATTGTT 350
Kluyveromyces wickerhamii AAAGATGAAAAGAACTTTGAAAAGAGAGTGAAAAGTACGTGAAATTGTT 350
Kluyveromyces dobzhanskii AAAGATGAAAAGAACTTTGAAAAGAGAGTGAAAAGTACGTGAAATTGTT 350
*****

SSSJ-0          GAAAGGGAAGGGCATTTGATCAGACATGGCGTTTGCTTCGGCTTTTCGCTG 397
Kluyveromyces marxianus GAAAGGGAAGGGCATTTGATCAGACATGGCGTTTGCTTCGGCTTTTCGCTG 400
Kluyveromyces lactis    GAAAGGGAAGGGCATTTGATCAGACATGGCGTTTGCTTCGGCTTTTCGCTG 400
Kluyveromyces wickerhamii GAAAGGGAAGGGCATTTGATCAGACATGGCGTTTGCTTCGGCTTTTCGCTG 400
Kluyveromyces dobzhanskii GAAAGGGAAGGGCATTTGATCAGACATGGCGTTTGCTTCGGCTTTTCGCTG 400
*****

SSSJ-0          GGCCAGCATCAGTTTTCGCGTTGGATAAAATCCTCGGGAATGTGGCTCTG 447
Kluyveromyces marxianus GGCCAGCATCAGTTTTCGCGTTGGATAAAATCCTCGGGAATGTGGCTCTG 450
Kluyveromyces lactis    GGCCAGCATCAGTTTTCGCGTTGGATAAAATCCTCGGGAATGTGGCTCTG 450
Kluyveromyces wickerhamii GGCCAGCATCAGTTTTCGCGTTGGATAAAATCCTCGGGAATGTAGCTCTA 450
Kluyveromyces dobzhanskii GGCCAGCATCAGTTTTCGCGTTGGATAAAATCCTCGGGAATGTGGCTCTA 450
*****

SSSJ-0          CTTGCGTAGAGTGTATAGCCCGTGGGAATACAGCCAGCTGGGACTGAGG 497

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FIG. 1B

Kluyveromyces marxianus	CTTCGGTAGAGTGTTATAGCCCGTGGGAATACAGCCAGCTGGGACTGAGG	500
Kluyveromyces lactis	CTTCGGTAGAGTGTTATAGCCCGTGGGAATACAGCCAGCTGGGACTGAGG	500
Kluyveromyces wickerhamii	CCTCGGTAGAGTGTTATAGCCCGTGGGAATACAGCCAGCTGGGACTGAGG	500
Kluyveromyces dobzhanskii	CCGTGGTAGAGTGTTATAGCCCGTGGGAATACAGCCAGCTGGGACTGAGG	500
	* *****	
SSSJ-0	ATTGCGACTTTTGTCAAGGATGCTGGCGTAATGGTTAAATGCCGC	542
Kluyveromyces marxianus	ATTGCGACTTTTGTCAAGGATGCTGGCGTAATGGTTAAATGCCGC	545
Kluyveromyces lactis	ATTGCGACTTTTGTCAAGGATGCTGGCGTAATGGTTAAATGCCGC	545
Kluyveromyces wickerhamii	ATTGCGACTTTTGTCAAGGATGCTGGCGTAATGGTTAAATGCCGC	545
Kluyveromyces dobzhanskii	ATTGCGACTTTTGTCAAGGATGCTGGCGTAATGGTTAAATGCCGC	545
	*****	

FIG. 2

# Growth of SSSJ-0 on 2% Glucose and 2% L-Arabinose

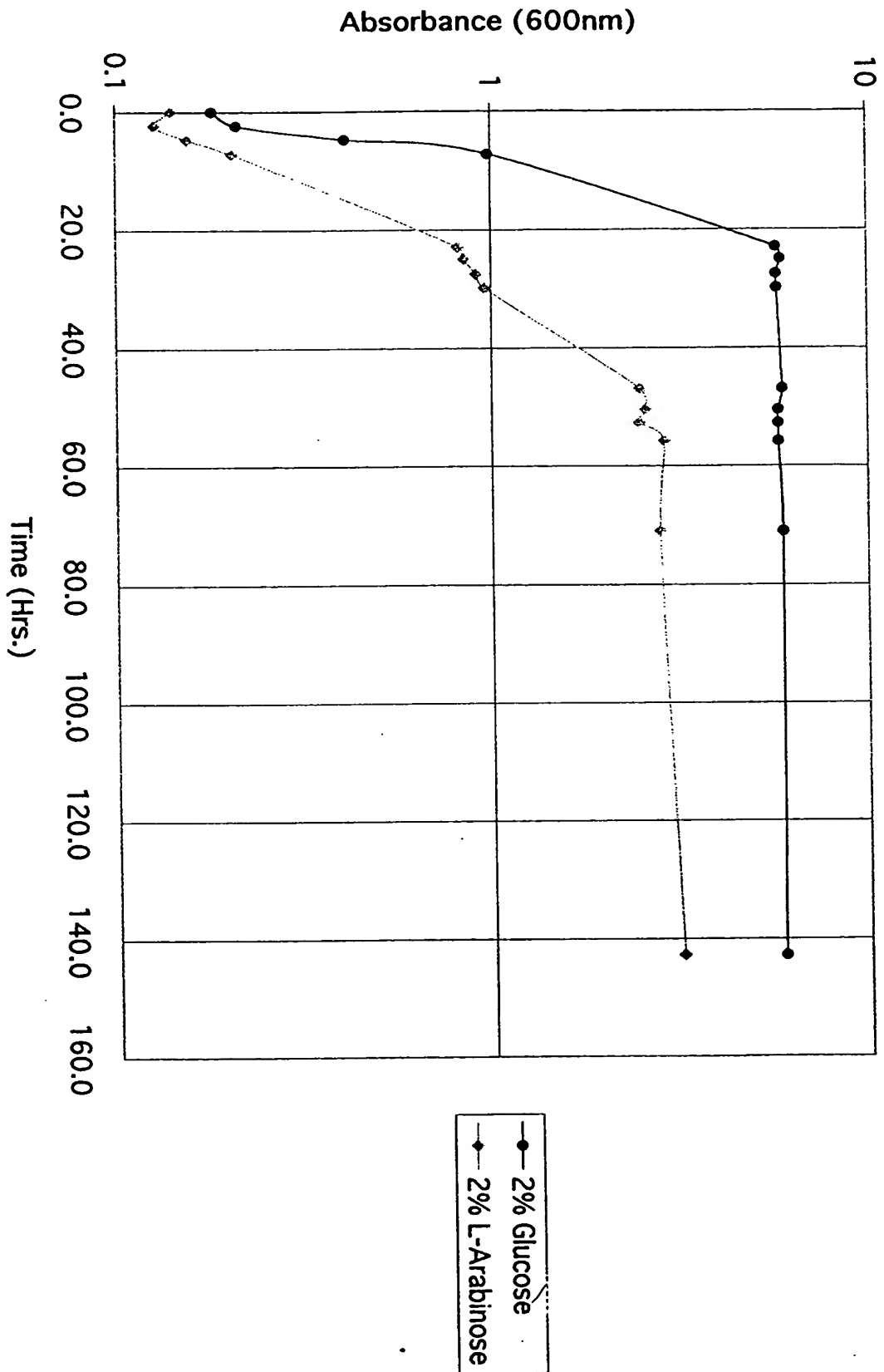
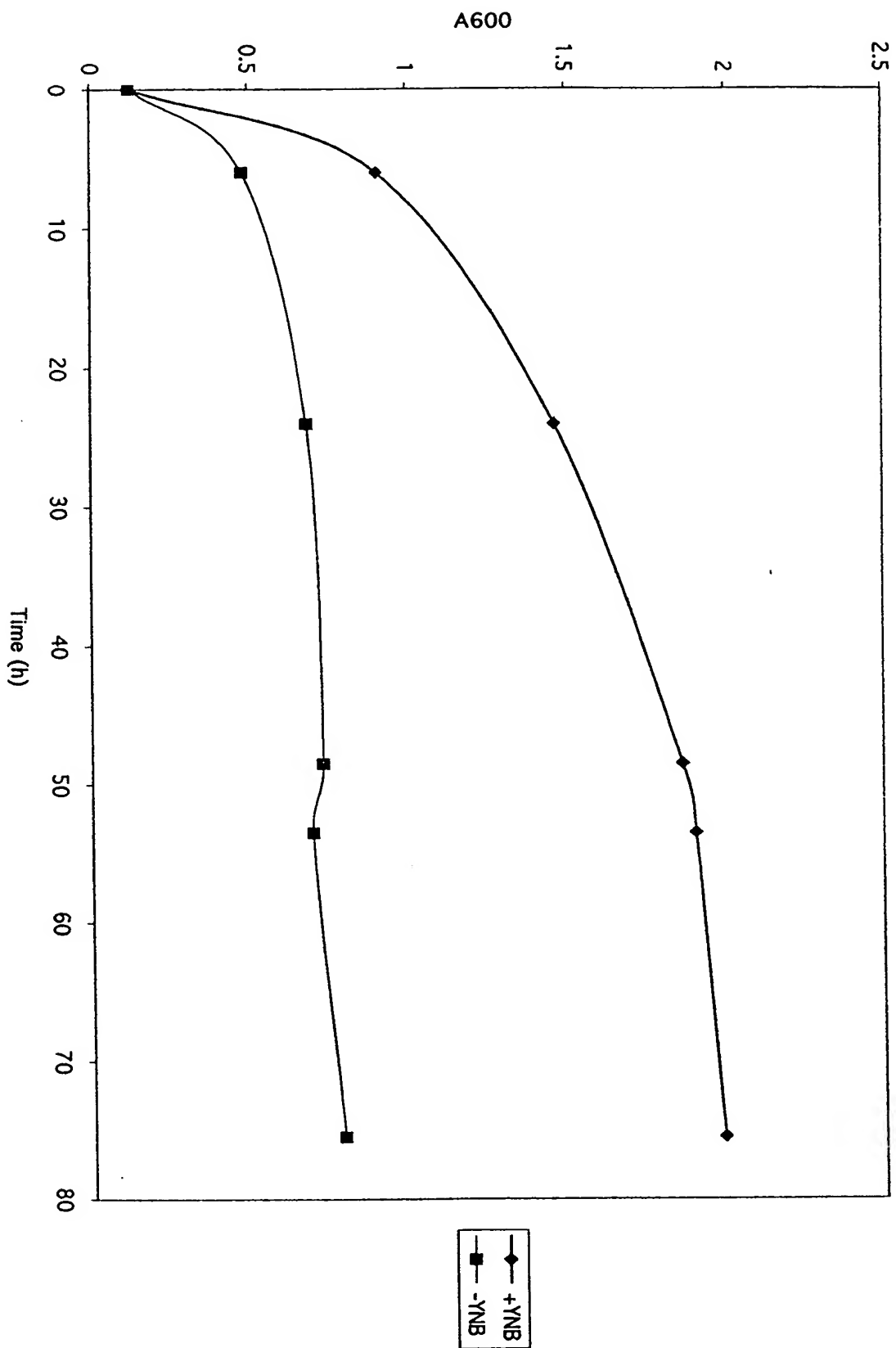


FIG. 3



Growth on Corn Stove hydrolysate +/- YNB

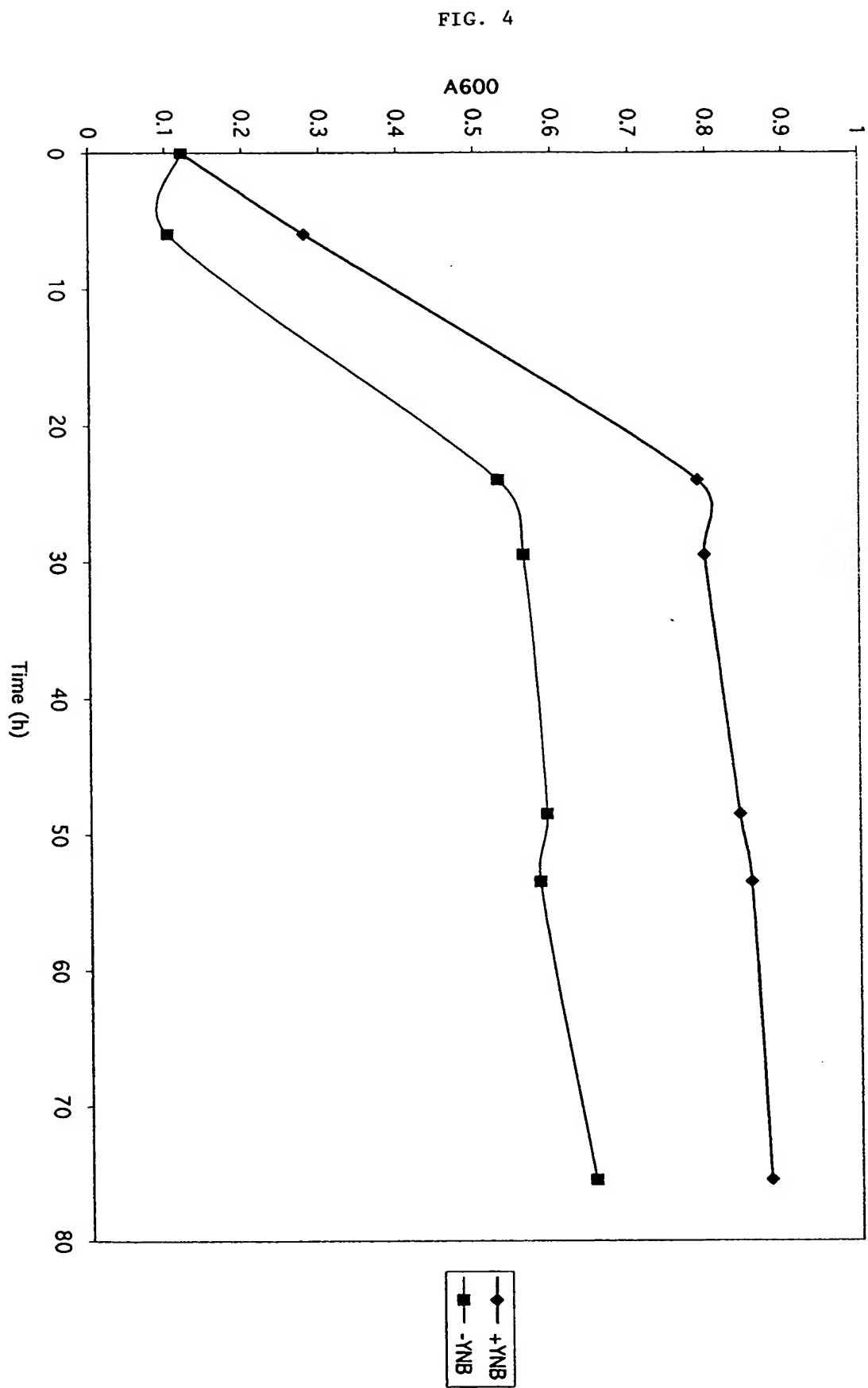


FIG. 5

# Growth of SSSJ-0 on Xylose

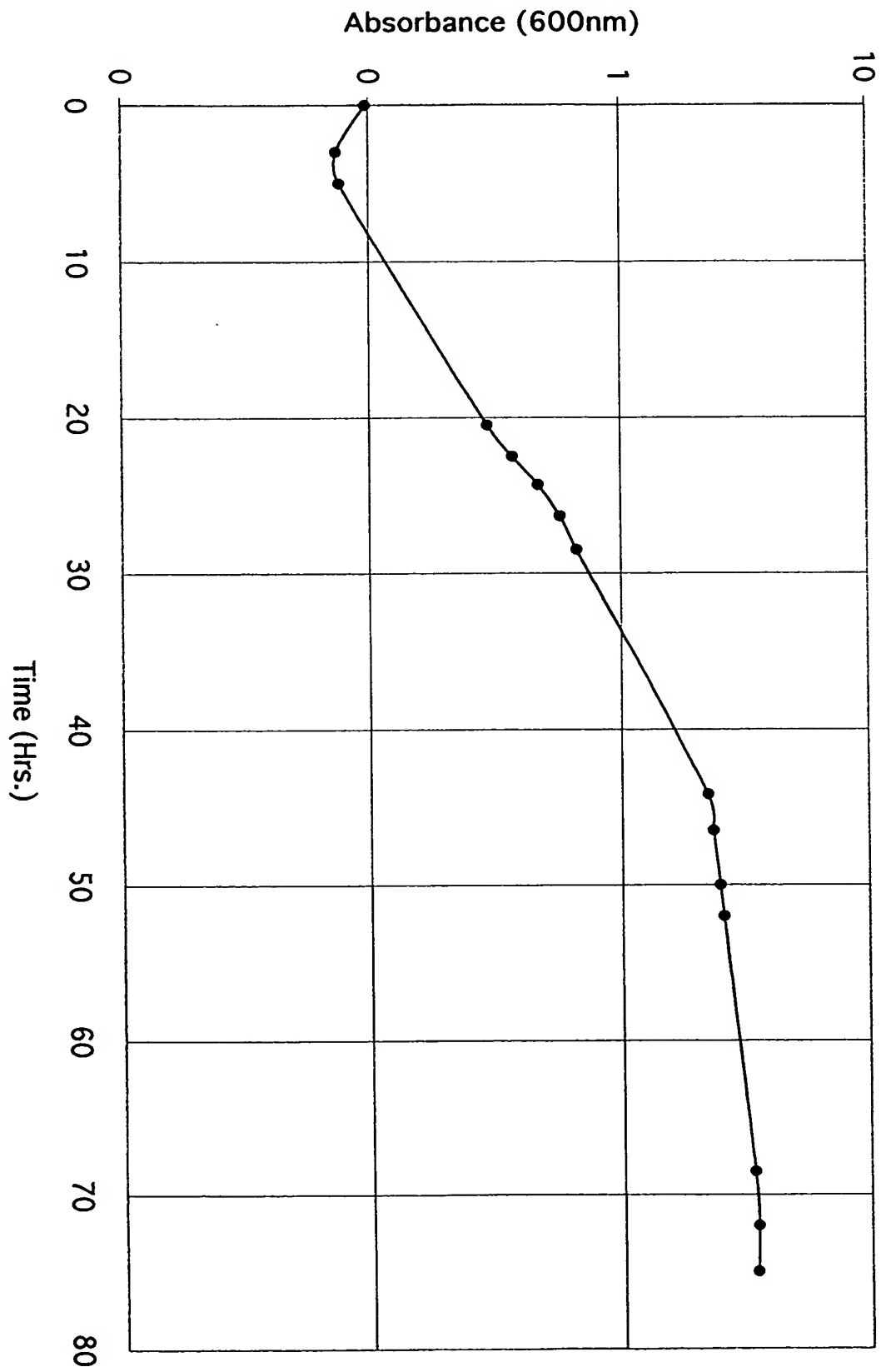


FIG. 6

